What is claimed is:

- 1. A propeller-turbine engine arrangement comprising:
 - a gas generator engine;
- 5 a gearbox connected to the engine;
 - a propeller hub connected to the gearbox; and
 - two propellers arranged axially offset relative to each other on the propeller hub which rotate in the same direction.
- 2. An arrangement in accordance with Claim 1, wherein the two propellers are a front propeller and a rear propeller and the front propeller is circumferentially offset to the rear propeller.
- 3. An arrangement in accordance with Claim 2, wherein the front propeller and the rear propeller have the same number of blades.
 - 4. An arrangement in accordance with Claim 3, wherein the propeller blades of both propellers can be pitch-controlled.
- 20 5. An arrangement in accordance with Claim 4, wherein the propeller hub includes an annular boundary-layer suction inlet positioned between both propellers.
- 6. An arrangement in accordance with Claim 1, wherein the two propellers are a front propeller and a rear propeller, and the front propeller and the rear propeller have the same number of blades.
 - 7. An arrangement in accordance with Claim 6, wherein the propeller blades of both propellers can be pitch-controlled.

- 8. An arrangement in accordance with Claim 7, wherein the propeller hub includes an annular boundary-layer suction inlet positioned between both propellers.
- 5 9. An arrangement in accordance with Claim 1, wherein each propeller includes a plurality of blades and the blades of both propellers can be pitch-controlled.
 - An arrangement in accordance with Claim 9, wherein the propeller hub includes an annular boundary-layer suction inlet positioned between both propellers.
 - 11. An arrangement in accordance with Claim 1, wherein the propeller hub includes an annular boundary-layer suction inlet positioned between both propellers.
 - 12. An arrangement in accordance with Claim 2, wherein the propeller hub includes an annular boundary-layer suction inlet positioned between both propellers.
- 20 13. An arrangement in accordance with Claim 3, wherein the propeller hub includes an annular boundary-layer suction inlet positioned between both propellers.
- 14. An arrangement in accordance with Claim 2, wherein the propeller blades of both propellers can be pitch-controlled.
 - 15. An arrangement in accordance with Claim 14, wherein the propeller hub includes an annular boundary-layer suction inlet positioned between both propellers.

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- 16. An arrangement in accordance with Claim 7, wherein the propeller hub includes an annular boundary-layer suction inlet positioned between both propellers.
- 5 17. An arrangement in accordance with Claim 5, wherein the suction inlet is in the form of at least one of an annular inlet, a scoop inlet and a NACA type inlet.
 - 18. An arrangement in accordance with Claim 11, wherein the suction inlet is in the form of at least one of an annular inlet, a scoop inlet and a NACA type inlet.

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- 19. An arrangement in accordance with Claim 2, wherein the circumferential offset is variable.
- 15 20. An arrangement in accordance with Claim 19, including a mechanism positioned between the front blade and the rear blade for adjusting the circumferential offset.
- 21. An arrangement in accordance with Claim 20, wherein mechanism for adjusting the circumferential offset can adjust the circumferential offset by up to a circumferential pitch between adjacent blades.
 - 22. A propeller arrangement for a gas generator engine, comprising; a propeller hub connectable to the engine; and two propellers arranged axially offset relative to each other on the propeller hub which rotate in the same direction.
 - 23. An arrangement in accordance with Claim 22, wherein the two propellers are a front propeller and a rear propeller and the front propeller is circumferentially offset to the rear propeller.

- 24. An arrangement in accordance with Claim 23, wherein the front propeller and the rear propeller have the same number of blades.
- 25. An arrangement in accordance with Claim 24, wherein the propeller blades of both propellers can be pitch-controlled.
 - 26. An arrangement in accordance with Claim 25, wherein the propeller hub includes an annular boundary-layer suction inlet positioned between both propellers.

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- 27. An arrangement in accordance with Claim 23, wherein the circumferential offset is variable.
- 28. An arrangement in accordance with Claim 27, including a mechanism positioned between the front blade and the rear blade for adjusting the circumferential offset.
- 29. An arrangement in accordance with Claim 28, wherein mechanism for adjusting the circumferential offset can adjust the circumferential offset by up to a circumferential pitch between adjacent blades.